Appln. No.: 10/657,944

Amendment Dated: November 3, 2005 Reply to Office Action of July 5, 2005 MTS-3462US

<u>Amendments to the Claims:</u> This listing of claims will replace all prior versions, and listings, of claims in the application

Listing of Claims:

(Currently Amended) A band elimination filter, comprising:

an input terminal and an output terminal;

one capacitor between a first terminal connected to said input terminal and a second terminal connected to said output terminal; wherein

said first terminal is grounded via only a first grounding point;

said second terminal is grounded via only a second grounding point,

a first acoustic resonator is connected between said first terminal and said first grounding point, $\frac{1}{2}$

a second acoustic resonator is connected between said second terminal and said second grounding point-, and

a normalized impedance, which is obtained by normalizing a characteristic impedance of said input terminal or said output terminal, is smaller than 1.5.

- 2. (Previously Presented) The band elimination filter according to claim 1, wherein said acoustic resonators are surface acoustic wave resonators formed on a principal surface of a piezoelectric substrate.
- 3-7. (Canceled)
- 8. (Currently Amended) The band elimination filter according to claim 1 or 2, further comprising an inductor having a first end coupled to the input terminal and a second end coupled to the output terminal.
- 9-10. (Canceled)
- 11. (Previously Presented) The band elimination filter according to claim 1, wherein said capacitor is a chip component.

MTS-3462US

Appln. No.: 10/657,944 Amendment Dated: November 3, 2005 Reply to Office Action of July 5, 2005

- 12. (Previously Presented) The band elimination filter according to claim 1, wherein said capacitor is formed on a piezoelectric substrate.
- 13. (Previously Presented) The band elimination filter according to claim 1, wherein said capacitor is formed in a mounting substrate on which said band elimination filter is mounted.
- 14. (Original) The band elimination filter according to claim 13, wherein said mounting substrate is a laminated body having a dielectric layer.
- 15. (Original) The band elimination filter according to claim 13, wherein said acoustic resonators are face-down mounted on said mounting substrate.
- 16. (Original) The band elimination filter according to claim 2, wherein electrode pads of said surface acoustic wave resonators which are grounded are separated from each other on said piezoelectric substrate.
- 17. (Previously Presented) The band elimination filter according to claim 1, wherein said acoustic resonators are piezoelectric resonators.
- 18. (Currently Amended) The band elimination filter according to claim 17, wherein said piezoelectric resonators are a bulk wave resonators having an upper electrode, a lower electrode and a piezoelectric layer sandwiched between said upper electrode and said lower electrode.
- 19. (Original) The band elimination filter according to claim 18, wherein said piezoelectric layer is composed of a piezoelectric thin film.
- 20. (Currently Amended) The band elimination filter according to claim 18, wherein said reactance-element<u>capacitor</u> is formed using said electrodes of at least one of said bulk wave resonators.
- 21. (Previously Presented) The band elimination filter according to claim 1, wherein said first and second acoustic resonators have different resonance frequencies.
- 22. (Currently Amended) The band elimination filter according to claim 1, wherein said ground point one end of each of said acoustic resonators is independently grounded by wiring on a substrate.

MTS-3462US

Appln. No.: 10/657,944

Amendment Dated: November 3, 2005 Reply to Office Action of July 5, 2005

- 23. (Canceled)
- 24. (Previously Presented) A filter device comprising a plurality of filters wherein at least one of the plurality of filters is a band elimination filter according to claim 1.
- 25. (Original) An antenna duplexer, comprising:
 - a transmission filter; and
 - a receiving filter;

wherein a band elimination filter according to claim 24 is used as said transmission filter or said receiving filter.

26. (Currently Amended) A communication apparatus, comprising:

transmission means of transmitting a signal;

receiving means of receiving a signal, and

wherein a band elimination filter according to claim 1 is used in said transmission means and/or said receiving means.

- 27. (Currently Amended) The band elimination filter according to claim 1 having passing characteristics that <u>decreases attenuationincline</u> in a center frequency portion of the pass-band toward a <u>higher-frequency portioncenter-frequency</u> of the pass-band.
- 28. (Currently Amended) A band elimination filter, comprising:

an input terminal and an output terminal;

one <u>a first</u> inductor between a first terminal connected <u>directly</u> to said input terminal and a second terminal connected to said output terminal; wherein

said first terminal is grounded via only a first grounding point;
said second terminal is grounded via only a second grounding point,

Appln. No.: 10/657,944

Amendment Dated: November 3, 2005 Reply to Office Action of July 5, 2005

MTS-3462US

a first acoustic resonator is connected between said first terminal and said first grounding point, and

a second acoustic resonator is connected between said second terminal and said second grounding point.

- (Currently Amended) The band elimination filter according to claim 28 or 32 having 29. passing characteristics that decreases attenuationincline in a center frequency portion of the pass-band toward a higher frequency portioncenter-frequency of the pass-band.
- (Previously Presented) The band elimination filter according to claim 1, wherein 30.
- a first inductor is connected between said first grounding point and said first acoustic resonator, and

a second inductor is connected between said second grounding point and said second acoustic resonator.

- (Currently Amended) The band elimination filter according to claim 28 or 32, wherein 31.
- a second inductor is connected between said first grounding point and said first acoustic resonator, and
- a third inductor is connected between said second grounding point and said second acoustic resonator.
- (New) The band elimination filter according to claim 28, wherein a normalized 32. impedance, which is obtained by normalizing a characteristic impedance of said input terminal or said output terminal, is smaller than 1.5.
- (New) The band elimination filter according to claim 28 or 32, wherein said acoustic 33. resonators are surface acoustic wave resonators formed on a principal surface of a piezoelectric substrate.
- (New) The band elimination filter according to claim 28 or 32, further comprising a 34. capacitor formed on a piezoelectric substrate, and connected between the first terminal and the second terminal.

MTS-3462US

Appln. No.: 10/657,944

Amendment Dated: November 3, 2005 Reply to Office Action of July 5, 2005

- 35. (New) The band elimination filter according to claim 28 or 32, further comprising a capacitor formed in a mounting substrate on which said band elimination filter is mounted and connected between the first terminal and the second terminal.
- 36. (New) The band elimination filter according to claim 35, wherein said mounting substrate is a laminated body having a dielectric layer.
- 37. (New) The band elimination filter according to claim 35, wherein said acoustic resonators are face-down mounted on said mounting substrate.
- 38. (New) The band elimination filter according to claim 33, wherein electrode pads of said surface acoustic wave resonators which are grounded are separated from each other on said piezoelectric substrate.
- 39. (New) The band elimination filter according to claim 28 or 32, wherein said acoustic resonators are piezoelectric resonators.
- 40. (New) The band elimination filter according to claim 39, wherein said piezoelectric resonators are a bulk wave resonators having an upper electrode, a lower electrode and a piezoelectric layer sandwiched between said upper electrode and said lower electrode.
- 41. (New) The band elimination filter according to claim 40, wherein said piezoelectric layer is composed of a piezoelectric thin film.
- 42. (New) The band elimination filter according to claim 28 or 32, wherein said first and second acoustic resonators have different resonance frequencies.
- 43. (New) The band elimination filter according to claim 28 or 32, wherein said ground point end of each of said acoustic resonators is independently grounded by wiring on a substrate.
- 44. (New) A filter device comprising a plurality of filters wherein at least one of the plurality of filters is a band elimination filter according to claim 28 or 32.
- 45. (New) An antenna duplexer, comprising:
 - a transmission filter; and
 - a receiving filter,

Page 6 of 12

Appln, No.: 10/657,944

Amendment Dated: November 3, 2005 Reply to Office Action of July 5, 2005

MTS-3462US

wherein a band elimination filter according to claim 44 is used as said transmission filter or said receiving filter.

(New) A communication apparatus, comprising: 46.

transmission means of transmitting a signal;

receiving means of receiving a signal, and

wherein a band elimination filter according to claim 28 or 32 is used in said transmission means and/or said receiving means.